



*Training Course:
ASP.NET Core*

*16 - 27 May 2027
Cairo (Egypt)*

Training Course: ASP.NET Core

Training Course code: IT234881 From: 16 - 27 May 2027 Venue: Cairo (Egypt) - Training Course Fees: 6300 € Euro

Introduction

In this Training program, you will be learning by project method enables you to build practical/coding experience that sticks. 95% of project method learners say they have confidence and remember more when they learn by building real-world projects which are required to work in real life.

The ASP.NET Core training is primarily designed for .NET Beginners/Professionals who want to learn how to develop a modern cloud-based app using ASP.NET Core . In this course, you will learn about .NET Core, middleware, MVC patterns, HTML helpers, tag helpers, custom helpers, validation and custom validation, and querying database using Entity Framework Core.

At the end of this training program, you will learn:

- Set up and build projects using Clean Architecture.
- Decouples Application modules using Dependency Injection.
- Integrate RazorPay/Paypal payment gateway.
- Implement a Repository pattern to perform database operations.
- Build a responsive UI using Bootstrap
- Implement Errors logging and save into Database, File system, etc.
- Optimize web pages to boost-up performance.
- Implement Login/Signup workflow using ASP.NET Core Identity.
- Implement Authentication/Authorization for unauthorized access.
- Implement ASP.NET Core best practices.
- Deployment project to cloud or IIS

Training Objectives

After completing this training program, participants will be able to:

- Understand ASP.NET Core architecture and build cross-platform applications
- Design and develop applications using Clean Architecture principles
- Implement Dependency Injection for modular and maintainable code
- Work with Entity Framework Core for database operations
- Build RESTful APIs using ASP.NET Core Web API
- Develop responsive user interfaces using Bootstrap
- Implement Repository and Unit of Work design patterns
- Integrate payment gateways such as PayPal and RazorPay
- Implement authentication and authorization using ASP.NET Core Identity
- Add logging and error handling using best practices e.g., Serilog, database/file logging
- Optimize application performance and apply ASP.NET Core best practices
- Deploy applications to IIS and cloud environments
- Build full end-to-end real-world projects using a project-based learning approach

Target Audience

This training program is designed for:

- .NET Developers and Software Engineers who want to build modern web applications using ASP.NET Core
- Beginner Developers seeking to start a career in web development using Microsoft technologies
- Full Stack Developers aiming to strengthen backend and API development skills
- Web Developers transitioning from ASP.NET MVC to ASP.NET Core
- IT Professionals interested in cloud-based application development
- Students and fresh graduates pursuing practical, project-based .NET experience
- Developers preparing for real-world enterprise application development roles

Training Outlines

Day 1: ASP.NET Core Fundamentals

Understand .NET Core architecture and advantages
Build and run cross-platform ASP.NET apps on Windows, Mac, and Linux
Overview of ASP.NET Core project structure

Day 2: Middleware & MVC Basics

Understand ASP.NET Core middleware pipeline
Configure ASP.NET Core MVC
Routing basics and request flow in MVC

Day 3: Dependency Injection & EF Core

Use Dependency Injection in ASP.NET Core
Work with Entity Framework Core
Basic database operations and DbContext usage

Day 4: Web API Fundamentals

Create REST services using ASP.NET Core Web API
Understand controllers and endpoints
Consume and test APIs

Day 5: Error Handling & Logging

Handle errors in ASP.NET Core
Implement error handling strategies
Error logging into file and database basic intro

Day 6: Design Patterns & Architecture

Implement Repository Pattern
Unit of Work Pattern
Apply Dependency Injection in real scenarios
Understand Clean Architecture structure

Day 7: UI Development & Frontend Integration

Build responsive UI using Bootstrap
Implement mobile-first design
Integrate frontend with backend APIs

Day 8: Security & Identity

Implement ASP.NET Core Identity
Authentication and Authorization
Login/Signup workflow
Role-based access control

Day 9: Advanced Topics & Integrations

Integrate payment gateways RazorPay / PayPal
ASP.NET Core best practices
Performance optimization basics

Day 10: Deployment & Final Project

Deploy application to IIS or cloud
Project walkthrough and final integration
Full revision and Q&A
Certificate wrap-up

Registration form on the Training Course: ASP.NET Core

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Complete & Mail or fax to Global Horizon Training Center (GHTC) at the address given below

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